

Supplemental Material
Dietary Intake is Associated with Phthalate Body Burden in a Nationally Representative Sample

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Supplementary Table 1. Change of log-transformed creatinine-adjusted phthalate metabolite levels per additional ounce equivalent of meat, egg, poultry, or fish or cup of other foods based on non-significant bivariate and multiple regression analyses.

Dietary Intake Group	Phthalate Metabolite	Bivariate Analysis			Multiple Regression Analysis ^a		
		B	95% Conf Int	P	B	95% Conf Int	P
Dairy	Total Phthalates	-0.027	(-0.055, 0.001)	0.060			
	High weight ^b	0.024	(-0.005, 0.053)	0.095			
	Low weight ^c	-0.063	(-0.107, -0.018)	0.009	-0.019	(-0.07, 0.032)	0.439
	DEHP metabolites ^d	0.021	(-0.024, 0.065)	0.337			
	MnBP	0.007	(-0.017, 0.031)	0.526			
	MEP	-0.063	(-0.108, -0.018)	0.009	-0.019	(-0.071, 0.033)	0.445
	MEHP	0.011	(-0.038, 0.061)	0.628			
	MBzP	0.040	(0.004, 0.076)	0.033	0.017	(-0.017, 0.051)	0.300
	MnMP	-0.037	(-0.064, -0.011)	0.009	-0.013	(-0.045, 0.019)	0.398
	MEHHP	0.023	(-0.023, 0.07)	0.304			
	MEOHP	0.020	(-0.022, 0.063)	0.320			
	MiBP	-0.030	(-0.051, -0.008)	0.010	-0.026	(-0.053, 0.002)	0.063
	MECCP	0.023	(-0.016, 0.062)	0.227			
Egg	Total Phthalates	0.058	(-0.054, 0.171)	0.287			
	High weight ^b	0.026	(-0.028, 0.08)	0.319			
	Low weight ^c	0.031	(-0.129, 0.19)	0.686			
	DEHP metabolites ^d	0.054	(-0.024, 0.131)	0.162			
	MnBP	-0.039	(-0.094, 0.016)	0.156			
	MEP	0.034	(-0.127, 0.195)	0.657			
	MBzP	-0.058	(-0.112, -0.004)	0.038	-0.020	(-0.077, 0.037)	0.464
	MnMP	-0.086	(-0.184, 0.012)	0.080			
	MCPP	-0.060	(-0.111, -0.009)	0.024	-0.028	(-0.08, 0.024)	0.271
	MEHHP	0.049	(-0.029, 0.126)	0.200			

	MEOHP	0.045	(-0.033, 0.123)	0.240			
	MiBP	0.025	(-0.026, 0.075)	0.320			
	MECCP	0.026	(-0.038, 0.09)	0.407			
Franks	Total Phthalates	-0.009	(-0.054, 0.037)	0.696			
	High weight ^b	-0.008	(-0.052, 0.035)	0.686			
	Low weight ^c	-0.019	(-0.085, 0.048)	0.558			
	DEHP metabolites ^d	0.009	(-0.041, 0.059)	0.700			
	MnBP	-0.047	(-0.082, -0.012)	0.011	-0.023	(-0.052, 0.007)	0.120
	MEP	-0.020	(-0.087, 0.047)	0.538			
	MEHP	0.003	(-0.049, 0.054)	0.918			
	MBzP	-0.031	(-0.067, 0.006)	0.095			
	MnMP	-0.017	(-0.049, 0.016)	0.290			
	MCPP	-0.003	(-0.047, 0.041)	0.887			
	MEHHP	0.011	(-0.039, 0.061)	0.651			
	MEOHP	0.009	(-0.044, 0.061)	0.731			
	MiBP	-0.026	(-0.061, 0.008)	0.127			
	MECCP	0.005	(-0.041, 0.051)	0.829			
Fruit	Total Phthalates	-0.012	(-0.056, 0.033)	0.593			
	Low weight ^c	0.027	(-0.023, 0.077)	0.271			
	MnBP	-0.038	(-0.077, 0.002)	0.061			
	MEP	0.024	(-0.028, 0.075)	0.341			
	MEHP	-0.025	(-0.076, 0.025)	0.305			
	MCPP	0.000	(-0.034, 0.035)	0.980			
	MiBP	-0.010	(-0.065, 0.046)	0.712			
High Omega-3 Fish	Total Phthalates	0.002	(-0.053, 0.056)	0.954			
	High weight ^b	0.014	(-0.04, 0.068)	0.600			
	Low weight ^c	-0.015	(-0.113, 0.084)	0.756			
	DEHP metabolites ^d	0.022	(-0.065, 0.11)	0.597			

	MnBP	-0.014	(-0.089, 0.062)	0.702		
	MEP	-0.013	(-0.113, 0.087)	0.780		
	MEHP	0.028	(-0.119, 0.176)	0.690		
	MBzP	-0.026	(-0.073, 0.021)	0.260		
	MnMP	-0.029	(-0.07, 0.011)	0.144		
	MCPP	-0.031	(-0.07, 0.008)	0.116		
	MEHHP	0.023	(-0.062, 0.109)	0.566		
	MEOHP	0.019	(-0.065, 0.104)	0.632		
	MiBP	-0.005	(-0.05, 0.041)	0.824		
	MECCP	0.023	(-0.051, 0.096)	0.520		
Low Omega-3 Fish	Total Phthalates	0.028	(-0.012, 0.067)	0.156		
	High weight ^b	0.015	(-0.021, 0.051)	0.387		
	Low weight ^c	0.009	(-0.053, 0.071)	0.766		
	DEHP metabolites ^d	0.022	(-0.021, 0.066)	0.296		
	MnBP	-0.003	(-0.032, 0.025)	0.800		
	MEP	0.010	(-0.051, 0.07)	0.739		
	MEHP	0.037	(-0.033, 0.107)	0.273		
	MBzP	0.005	(-0.034, 0.045)	0.780		
	MnMP	-0.045	(-0.083, -0.007)	0.023		
	MCPP	-0.033	(-0.067, 0.001)	0.056		
	MEHHP	0.025	(-0.017, 0.067)	0.228		
	MEOHP	0.019	(-0.025, 0.062)	0.383		
	MECCP	0.006	(-0.038, 0.05)	0.772		
Legumes	Total Phthalates	-0.110	(-0.275, 0.056)	0.179		
	High weight ^b	-0.119	(-0.256, 0.018)	0.085		
	Low weight ^c	-0.133	(-0.386, 0.12)	0.281		
	DEHP metabolites ^d	-0.112	(-0.317, 0.093)	0.264		
	MnBP	-0.164	(-0.281, -0.048)	0.009	-0.109	(-0.224, 0.006)
						0.062

	MEP	-0.166	(-0.442, 0.11)	0.220			
	MEHP	-0.030	(-0.275, 0.214)	0.796			
	MBzP	-0.160	(-0.332, 0.012)	0.065			
	MnMP	0.102	(-0.235, 0.439)	0.529			
	MCPP	-0.055	(-0.198, 0.087)	0.421			
	MEHHP	-0.094	(-0.294, 0.106)	0.333			
	MEOHP	-0.143	(-0.359, 0.073)	0.179			
	MiBP	-0.032	(-0.188, 0.124)	0.671			
	MECCP	-0.077	(-0.254, 0.101)	0.374			
Meat	Total Phthalates	0.020	(-0.011, 0.05)	0.187			
	High weight ^b	-0.010	(-0.041, 0.02)	0.490			
	DEHP metabolites ^d	-0.008	(-0.042, 0.026)	0.639			
	MnBP	-0.036	(-0.07, -0.002)	0.039	-0.022	(-0.053, 0.009)	0.158
	MEHP	-0.010	(-0.045, 0.025)	0.564			
	MBzP	-0.004	(-0.037, 0.029)	0.793			
	MnMP	-0.006	(-0.034, 0.022)	0.651			
	MCPP	-0.018	(-0.037, 0.001)	0.064			
	MEHHP	-0.005	(-0.038, 0.028)	0.764			
	MEOHP	-0.009	(-0.045, 0.028)	0.619			
	MiBP	-0.025	(-0.061, 0.012)	0.167			
	MECCP	-0.005	(-0.035, 0.026)	0.748			
Potato	Total Phthalates	0.040	(-0.044, 0.125)	0.324			
	High weight ^b	-0.051	(-0.14, 0.037)	0.235			
	Low weight ^c	0.093	(-0.004, 0.19)	0.059			
	DEHP metabolites ^d	-0.092	(-0.192, 0.009)	0.071			
	MnBP	-0.058	(-0.165, 0.049)	0.264			
	MEHP	-0.072	(-0.21, 0.065)	0.280			
	MBzP	0.043	(-0.065, 0.151)	0.413			

	MnMP	-0.030	(-0.124, 0.064)	0.513			
	MCPP	-0.053	(-0.103, -0.004)	0.036	-0.042	(-0.096, 0.013)	0.124
	MEHHP	-0.088	(-0.188, 0.012)	0.082			
	MEOHP	-0.095	(-0.205, 0.015)	0.087			
	MiBP	-0.082	(-0.182, 0.019)	0.104			
	MECCP	-0.082	(-0.172, 0.007)	0.070			
Poultry	Total Phthalates	0.017	(-0.017, 0.05)	0.312			
	Low weight ^c	0.002	(-0.042, 0.047)	0.911			
	MnBP	0.013	(-0.006, 0.032)	0.176			
	MEP	0.003	(-0.043, 0.049)	0.896			
	MBzP	-0.005	(-0.032, 0.022)	0.694			
	MnMP	-0.017	(-0.042, 0.008)	0.165			
	MCPP	-0.008	(-0.028, 0.012)	0.399			
	MiBP	0.020	(-0.007, 0.046)	0.138			
Tomato	Total Phthalates	0.064	(-0.044, 0.171)	0.225			
	High weight ^b	-0.081	(-0.202, 0.041)	0.178			
	DEHP metabolites ^d	-0.070	(-0.215, 0.075)	0.321			
	MnBP	-0.111	(-0.244, 0.023)	0.097			
	MEHP	-0.002	(-0.135, 0.13)	0.969			
	MnMP	0.011	(-0.156, 0.178)	0.891			
	MCPP	-0.076	(-0.189, 0.037)	0.172			
	MEHHP	-0.066	(-0.225, 0.093)	0.389			
	MEOHP	-0.089	(-0.242, 0.063)	0.232			
	MiBP	-0.008	(-0.121, 0.106)	0.889			
	MECCP	-0.045	(-0.182, 0.092)	0.494			
Vegetables	High weight ^b	-0.041	(-0.087, 0.005)	0.075			
	DEHP metabolites ^d	-0.036	(-0.092, 0.02)	0.189			
	MnBP	-0.061	(-0.11, -0.011)	0.020			

MEHP	-0.012	(-0.063, 0.039)	0.624			
MBzP	-0.074	(-0.135, -0.012)	0.022			
MnMP	-0.015	(-0.078, 0.048)	0.622	-0.045	(-0.114, 0.024)	0.189
MCPP	-0.044	(-0.091, 0.002)	0.062			
MEHHP	-0.035	(-0.092, 0.022)	0.205			
MEOHP	-0.041	(-0.103, 0.021)	0.182			
MECPP	-0.035	(-0.082, 0.012)	0.135			

^a- Adjusted for BMI, age, ethnicity, and gender

^b- High molecular weight phthalate metabolites (sum of MECPP, MnBP, MCPP, MEHHP, MEHP, MiBP, MeOHP, and MBzP)

^c- Low molecular weight phthalate metabolites (sum of MEP and MnMP)

^d- Di(2-ethylhexyl) phthalate (DEHP) metabolites (sum of MECPP, MEHHP, MEHP, MEOHP)